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Opinion Poll on Land Use and Resource De
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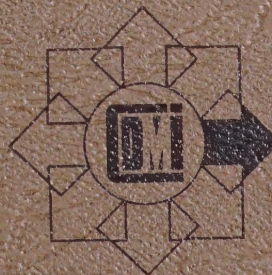


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Alta

OPINION POLL
ON LAND USE AND RESOURCE DEVELOPMENT
IN THE EASTERN SLOPES
COMMISSIONED BY
THE ENVIRONMENT CONSERVATION AUTHORITY

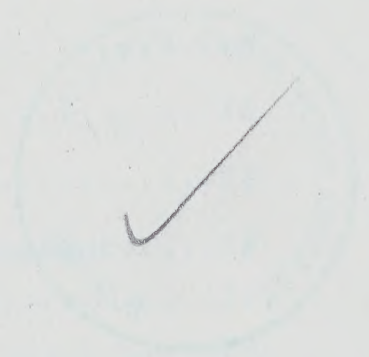
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EASTERN SLOPES STUDY



FALL 1973





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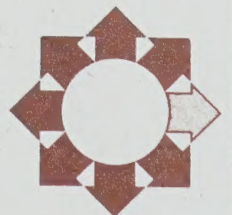
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INTRODUCTION



INTRODUCTION

The results presented in this study were obtained from interviewing 500 Alberta residents 18 years of age or older during the month of October 1973. Care was taken to ensure that Albertans from all walks of life were given the opportunity to participate.

This research report contains a wealth of data. The analysis which follows focuses upon those aspects of the data that the researchers feel are particularly significant - it does not summarize in detail all of the findings generated.

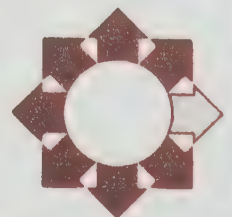


SAMPLE SELECTION

The sampling technique used in this study, which approximates a proportional random probability sample, was used for two major reasons:

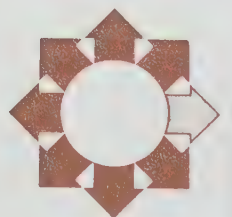
- (1) Samples of this type generally produce results which approximate those that would have been obtained if every person in the survey area had been interviewed.
- (2) Although no sample produces perfectly projectable results, the extent to which this type of sample is subject to error can be mathematically determined.

In this particular sample, the mathematics indicate that in 95 out of 100 cases, the reported percentages will not differ from the true population values by more than ± 4 percentage points.



SURVEYS ARE NOT PREDICTIONS

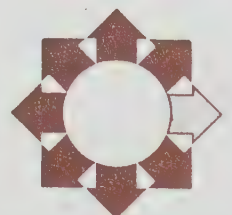
Surveys are designed to measure opinion within identifiable limits at specific points in time. This survey is in no way a prediction of opinion or action at any future point in time.



SAMPLE VALIDATION

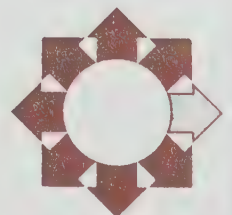
The demographic characteristics of this sample conform closely to the known parameters of the population. Perhaps the most significant relationship between the sample characteristics and those of the actual population can be seen by comparing the findings of this study with the findings of the most recently available census statistics (Alberta 1971 Census), with specific reference to the following:

<u>Age</u>	<u>Alberta 1971 Census</u>	<u>This Study</u>
18 to 24 years	20%	16%
25 to 34 years	22%	26%
35 to 49 years	28%	31%
50 to 64 years	19%	17%
65 years and over	11%	10%

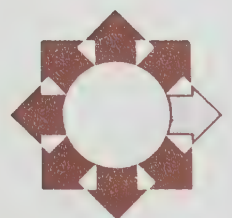


HOW TO DIGEST SURVEY RESULTS QUICKLY AND EASILY

At first, the bulk of a DMIC survey report might seem imposing. DMIC survey reports are complete, self-contained units whose statistics may be thoroughly checked by experts in survey research. However, this report is designed so that laymen who wish to quickly scan and absorb its tables need only to know about cross-tabulations and how the chi square is used.



INTERVIEW SCHEDULE



7. When you visit the Eastern Slopes, do you hike?

1 () Yes

2 () No

8. When you visit the Eastern Slopes, do you sightsee?

1 () Yes

2 () No

9. Do you visit the Eastern Slopes for reasons other than those mentioned above?

1 () Yes

2 () No

10. Do you think there are too many, about the right amount, or not enough roads in these areas?

1 () Too many

2 () About right

3 () Not enough

4 () Don't know

11. Do you feel the present roads in these areas: READ OUT

1 () Require improvement to gravel standard

2 () Should be paved

3 () Or are they satisfactory now?

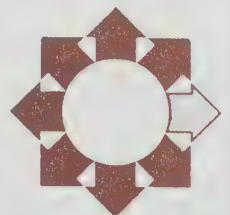
4 () Don't know

12. Do you feel we need more roads from Alberta westward through the mountains and into British Columbia?

1 () Yes

2 () No

3 () Don't know



13. In your opinion, are there more roads needed going from East to West into the Eastern Slopes, are there enough roads now, or are there too many roads already?

- 1 () More roads needed
- 2 () Enough roads now
- 3 () Too many roads already
- 4 () Don't know

14. In your opinion, are there more roads needed going from North to South in the Eastern Slopes, are there enough roads now, or are there too many roads already?

- 1 () More roads needed
- 2 () Enough roads now
- 3 () Too many roads already
- 4 () Don't know

15. Is there adequate tourist accommodation of the hotel-motel type in the Eastern Slopes?

- 1 () Yes
- 2 () No
- 3 () Don't know

16. Do you think new hotel and motel development should be restricted to present townsites, be allowed to develop on provincially owned land, or develop elsewhere?

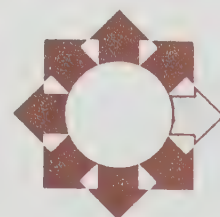
- 1 () Present townsites
- 2 () Provincially owned
- 3 () Develop elsewhere
- 4 () Don't know

SKIP TO QUESTION 19

SKIP TO QUESTION 19

17. Should they be restricted to specially zoned areas or should they be allowed to develop anywhere?

- 1 () Zoned areas
- 2 () Anywhere
- 3 () Don't know



18. Should the government lease the land or sell the land for hotel and motel development?

- 1 () Lease
- 2 () Sell
- 3 () Don't know

19. Wild land areas are where most outdoor activities including hunting are allowed, but where motorized vehicles and natural resource industries are forbidden. Should these areas be encouraged, discouraged, or are they not needed?

- 1 () Encouraged
- 2 () Discouraged
- 3 () Not needed
- 4 () Don't know

20. Should wilderness areas with no development of any kind or any recreational activity except foot travel be encouraged or discouraged?

- 1 () Encouraged
- 2 () Discouraged
- 3 () Don't know

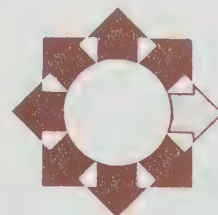
21. Do you think there should be more wilderness areas, about the same as now, or less wilderness areas?

- 1 () More
- 2 () Same
- 3 () Less
- 4 () Don't know

22. We have two opinions regarding the Indian rights to hunt on government owned land the year round. Mr. Smith feels this practice is decreasing our big-game and fish supply.

Mr. Jones feels the Indians should be allowed to hunt and fish at all seasons on government owned land. Are you more like Mr. Smith or Mr. Jones?

- 1 () Mr. Smith
- 2 () Mr. Jones
- 3 () Don't know



23. Do you think natural grazing areas should be left to wildlife only, or should ranchers be allowed to use them for grazing cattle?

- 1 () Wildlife only
- 2 () Grazing cattle
- 3 () Both
- 4 () Don't know

24. Should the government place restrictions on the way land is used in the Eastern Slopes?

- 1 () Yes
 - 2 () No
 - 3 () Don't know
-) SKIP TO QUESTION 26

25. Should these restrictions be rigidly enforced or should they be flexible?

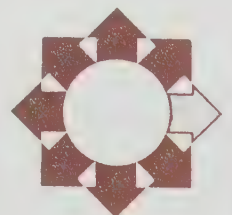
- 1 () Rigidly enforced
- 2 () Flexible
- 3 () Don't know

26. Once all the possible uses of land have been determined, should that land be used for all possible purposes, for selected purposes, or for one specific purpose only?

- 1 () All purposes
- 2 () Selected purposes
- 3 () One only
- 4 () Don't know

27. Should the administration of the Eastern Slopes be carried out by: READ OUT

- 1 () All government departments having an interest
- 2 () Any agency which coordinates all departmental affairs for the Eastern Slopes only
- 3 () Don't know



28. Which level of government should control the use of land in the Eastern Slopes: READ OUT

- 1 () The municipality or county
- 2 () Regional Planning Commissions
- 3 () The provincial government
- 4 () A mixture of all levels
- 5 () Don't know

29. Should people who use snowmobiles be confined to specific areas, or be allowed to travel all areas?

- 1 () Confined
- 2 () Travel all areas
- 3 () Don't know

30. Should people who use trail bikes be confined to specific areas, or be allowed to travel all areas?

- 1 () Confined
- 2 () Travel all areas
- 3 () Don't know

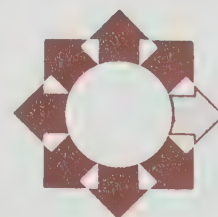
31. Which of the following is most important in the Eastern Slopes? READ OUT

- 1 () Protection of rivers and streams
- 2 () Wildlife protection
- 3 () Development of recreational areas
- 4 () Natural resource development
- 5 () Urban development
- 6 () Don't know

SKIP TO QUESTION 33

32. Which is next most important? READ REMAINING 4 RESPONSES

- 1 () Protection of rivers and streams
- 2 () Wildlife protection
- 3 () Development of recreational areas
- 4 () Natural resource development
- 5 () Urban development
- 6 () Don't know



33. Which is least important? READ REMAINING 3 RESPONSES

- 1 () Protection of rivers and streams
- 2 () Wildlife protection
- 3 () Development of recreational areas
- 4 () Natural resource development
- 5 () Urban development
- 6 () Don't know

34. Do you think that building dams on our rivers for hydro-electric power is a good way to manage our water?

- 1 () Yes
- 2 () No
- 3 () Don't know

35. Do you think we need to build more dams for electric power?

- 1 () Yes
- 2 () No
- 3 () Don't know

36. Are you in favor of building dams for water storage or irrigation?

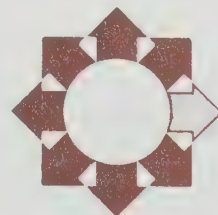
- 1 () Yes
- 2 () No
- 3 () Don't know

37. Do you think we are cutting too much timber, about the right amount, or not enough?

- 1 () Too much
- 2 () About right
- 3 () Not enough
- 4 () Don't know

38. Do you think that the logging companies are planting new trees as fast as they are cutting them down?

- 1 () Yes
- 2 () No
- 3 () Don't know



39. Do you feel that exploration for oil and gas is causing or may cause too much damage to the environment of the Eastern Slopes?

- 1 () Yes
- 2 () No
- 3 () Don't know

40. Do you feel that surface mining is causing or may cause serious damage to the environment of the Eastern Slopes?

- 1 () Yes
- 2 () No
- 3 () Don't know

41. Do you think it is possible to restore land to its original state after it has been surface mined?

- 1 () Yes
- 2 () No
- 3 () Don't know

42. Do you think we should restore the land to its original state?

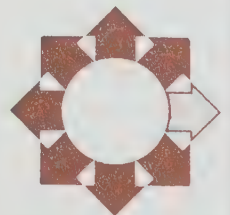
- 1 () Yes
- 2 () No
- 3 () Don't know

43. Do you think that resource industries in the mountain areas are doing all they can to restore the environment?

- 1 () Yes
- 2 () No
- 3 () Don't know

44. Do you feel that the government is doing enough to protect the environment of the Eastern Slopes?

- 1 () Yes
- 2 () No
- 3 () Don't know



45. As our population grows and new resource industries start up, do you feel we should: READ OUT

- 1 () Develop new towns in the Eastern Slopes
- 2 () Restrict development to towns already established
- 3 () Don't know

46. Now, just a question about yourself. Are you: READ OUT

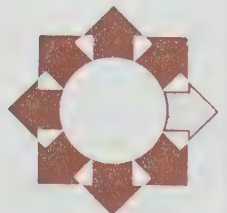
- 1 () Between 18 and 24 years
- 2 () 25 and 34 years
- 3 () 35 and 49 years
- 4 () 50 and 64 years
- 5 () 65 years or older
- 6 () Refused to answer

47. Respondent's sex:

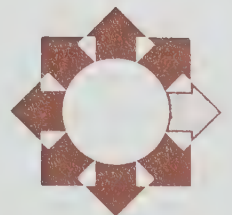
- 1 () Male
- 2 () Female

48. Area Interview Taken:

- 1 () Basin areas
- 2 () Edmonton
- 3 () Calgary
- 4 () South
- 5 () Central
- 6 () North



ANALYSIS

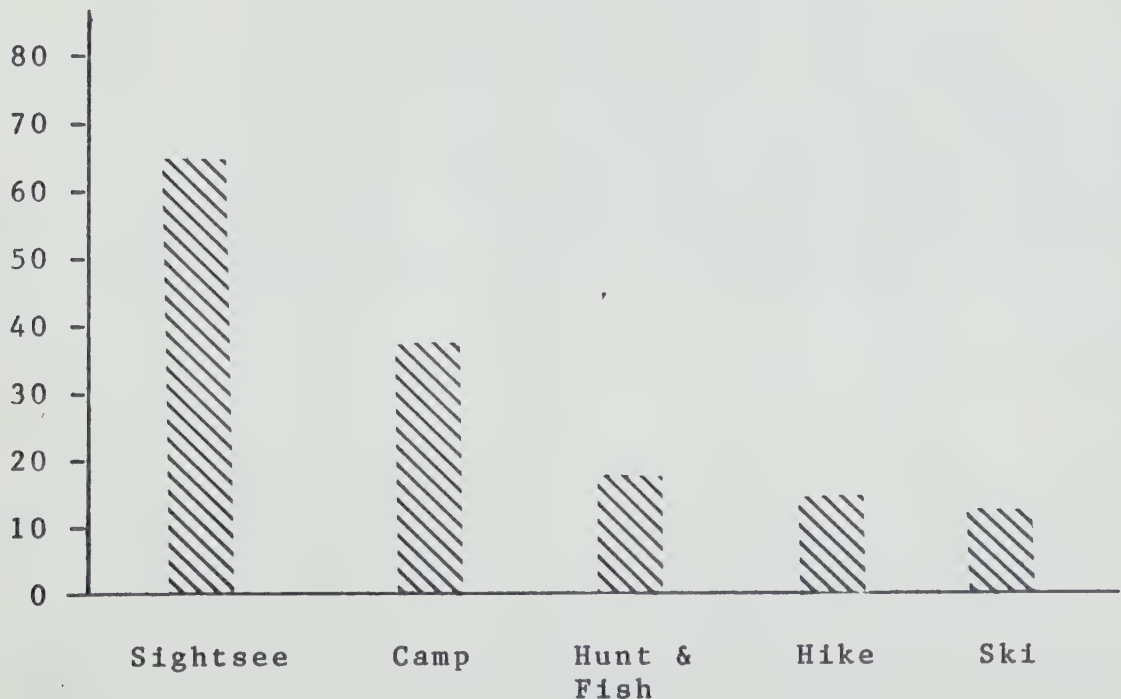


Sixty-five percent of the respondents indicated they had been to Alberta's Eastern Slopes in the past year (Question 1, page 1, Aggregate Data). Of those who have visited the Eastern Slopes in the past year, almost half had only visited once (Question 2, page 1, Percent Two). Of those who have not visited in the past year, thirty-two percent have visited between two and five years ago (Question 3, page 1, Percent Two). Of the total population, less than five percent indicated they have never been to the Eastern Slopes of the Rockies (Question 3, page 1, Percent One). As would be expected, those people living further away from the Eastern Slopes visit less frequently, and areas remote to the Eastern Slopes have a higher percentage of respondents who have never visited there (Tables 2, 3 and 4, pages 11 to 13). (In reading the cross-tabulations, it must be remembered that they are calculated on the basis of those respondents who have answered the questions. As the interview schedule demonstrates, there are

several skip questions in the first part of the survey to which some respondents should not reply).

Sightseeing is by far the most significant activity; 67 percent of the respondents indicated that that was one of their purposes in going to the Eastern Slopes (Question 8, page 2, Percent One). Camping was the next most important activity, followed by hunting and fishing, hiking, and skiing (Questions 4, 5, 6 and 7, pages 1 and 2, Percent One).

EASTERN SLOPES ACTIVITIES



Calgary respondents indicated they used the Eastern Slopes for recreation more than any other group, excepting of course, those who live in the Eastern Slopes area (Tables 5, 6, 7, 8 and 9, pages 14 to 18). Edmonton respondents were the next most active group.

As could be anticipated, different age groups also indicated their different purposes in going to the Eastern Slopes; the younger age group is more active in terms of frequency of visits and general mobility (Tables 47, 48 and 49, pages 59 to 61). Likewise the younger age groups are more apt to participate in active recreation, while the older groups have more passive reasons for visiting the Eastern Slopes (Table 50, 51, 52, 53 and 54, pages 62 to 66). Those who visit the Eastern Slopes more often are more inclined to active recreation (Tables 137, 138, 139, 140 and 141, pages 152 to 156).

Almost one-quarter of the respondents expressed the attitude that there are not enough roads in the Eastern Slopes (Question 10, page 2). An interesting observation is made when comparing the attitudes and opinions of those who live in different areas of the province regarding the need for more roads generally (Table 11, page 20). Basin area respondents are more inclined to feel that there are too many roads, while those more remote from the area (northern rural respondents) are more inclined to feel that there are not enough roads.

A difference of opinion regarding the quality of roads becomes manifest when asking the question:

"DO YOU FEEL THE PRESENT ROADS IN THESE AREAS REQUIRE IMPROVEMENT TO GRAVEL STANDARD, SHOULD BE PAVED, OR ARE THEY SATISFACTORY NOW?"

	<u>Average</u>	<u>Basin Areas</u>	<u>Northern Rural</u>
Require improvement to gravel standard	21%	38%	24%
Should be paved	25%	28%	21%
Satisfactory now	48%	31%	46%
Don't know	6%	3%	9%

Those who visit the Eastern Slopes more often than the average are inclined to feel that the present roads should be upgraded, rather than adding more new roads (Tables 143 and 144, pages 158 and 159). Overall, 48 percent of the respondents indicated that the present roads are satisfactory (Question 11, page 2). The population is almost evenly split regarding the need for more roads from Alberta westward through the mountains and into British Columbia (Question 12, page 3). Referring to the cross-tabulation by area (Table 13, page 22), northern respondents are more definite in their feelings towards the

need for such westward highways; likewise are Edmonton respondents. Other areas are less concerned about the need for such highways; those in the basin areas are exactly even in their opinion; 47 percent are in favor of more roads west, and 47 percent are opposed; six percent don't know.

When asked the following question, some variations of opinion with reference to area are again noted:

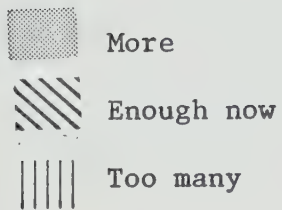
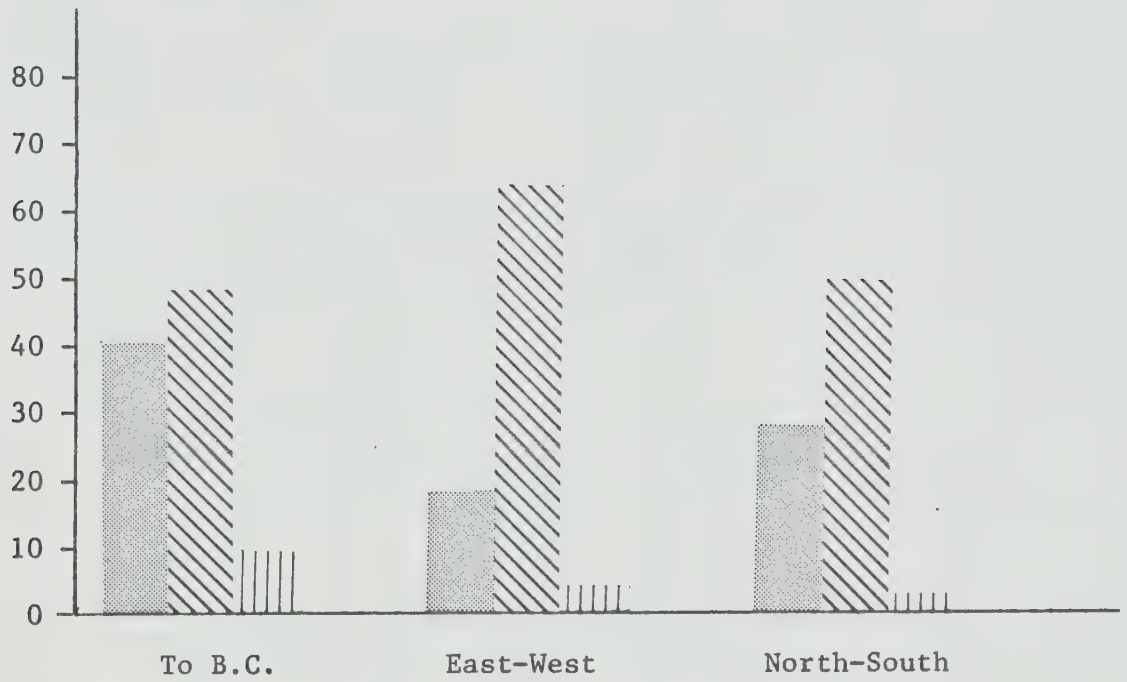
"IN YOUR OPINION, ARE THERE MORE ROADS
NEEDED GOING FROM EAST TO WEST INTO THE
EASTERN SLOPES, ARE THERE ENOUGH ROADS
NOW, OR ARE THERE TOO MANY ROADS ALREADY?"

	<u>Average</u>	<u>Basin Areas</u>	<u>Northern Rural</u>
More roads needed	19%	19%	28%
Enough roads now	65%	63%	51%
Too many roads already	3%	13%	5%
Don't know	13%	6%	16%

With reference to roads running north and south, a greater need was expressed; 29 percent felt more roads were needed running north and south (Question 14, page 3). It must be remembered however, that 51 percent felt there are enough

roads already. Again those living in the basin areas, and those living in the northern rural areas, reflected opinions different than the average (Table 15, page 24). Those in the basin areas were more definite in their indication for more roads needed, however, there seems to be a more distinct difference of opinion among these respondents, as there were also a greater number who indicated there were too many roads. This polarization of opinion of basin area residents is evident in other cross-tabulations also (Table 12, page 21, Tables 14 and 15, pages 23 and 24).

EASTERN SLOPES ROADS



"IS THERE ADEQUATE TOURIST ACCOMMODATION
OF THE HOTEL-MOTEL TYPE IN THE EASTERN
SLOPES?"

	<u>Average</u>	<u>Basin Areas</u>	<u>Northern Rural</u>
Yes	46%	47%	27%
No	30%	34%	45%
Don't know	24%	19%	28%

Those with a higher frequency of visits to the Eastern Slopes are more inclined to feel that accommodation is adequate (Table 148, page 163).

Forty-three percent of the respondents felt that hotel and motel development should be restricted to present townsites (Question 16, page 3). As expected, basin area residents are more in favor of these developments in present townsites than

other areas (Table 17, page 26). Fifty-nine percent of the basin area residents felt that present townsites should have the hotel-motel development. Those who visit the Eastern Slopes more often than average are even more in favor of present townsite development (Table 149, page 164).

Those who felt that hotel and motel development should be allowed to develop on provincially owned land were asked:

"SHOULD THEY [HOTEL AND MOTEL DEVELOPMENT]
BE RESTRICTED TO SPECIALLY ZONED AREAS OR
SHOULD THEY BE ALLOWED TO DEVELOP ANYWHERE?"

	<u>Percent</u>
Zoned areas	59
Anywhere	32
Don't know	10
(Question 17, page 4, Percent Two)	

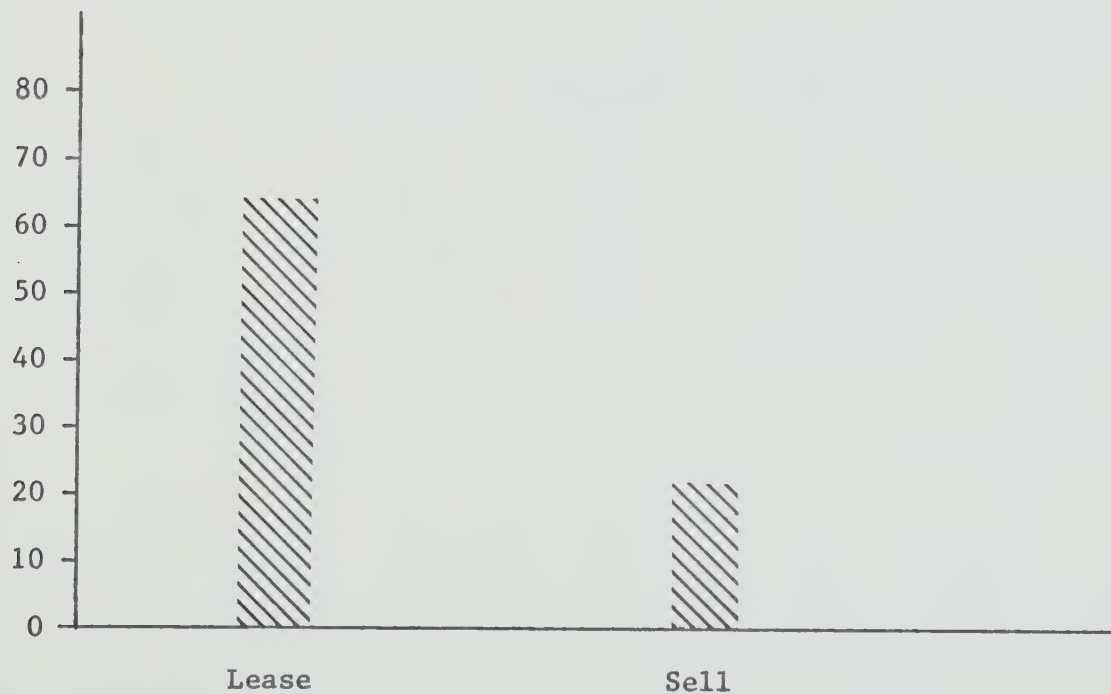
In addition, these respondents were also asked:

"SHOULD THE GOVERNMENT LEASE THE LAND OR SELL
THE LAND FOR HOTEL AND MOTEL DEVELOPMENT?"

	<u>Percent</u>
Lease	64
Sell	22
Don't know	13

(Question 18, page 4, Percent Two)

LAND DEVELOPMENT PREFERENCE



"WILD LAND AREAS ARE WHERE MOST OUTDOOR ACTIVITIES INCLUDING HUNTING ARE ALLOWED, BUT WHERE MOTORIZED VEHICLES AND NATURAL RESOURCE INDUSTRIES ARE FORBIDDEN. SHOULD THESE AREAS BE ENCOURAGED, DISCOURAGED, OR ARE THEY NOT NEEDED?"

	<u>Average</u>	<u>Southern Alberta</u>	<u>Northern Alberta</u>
Encouraged	65%	46%	72%
Discouraged	21%	34%	22%
Not Needed	7%	5%	2%
Don't know	7%	15%	4%

(Table 20, page 29)

" SHOULD WILDERNESS AREAS WITH NO DEVELOPMENT
OF ANY KIND OR ANY RECREATION OF ANY KIND
EXCEPT FOOT TRAVEL BE ENCOURAGED OR DISCOURAGED?"

	<u>Average</u>
Encouraged	78%
Discouraged	17%
Don't know	5%

(Question 20, page 4)

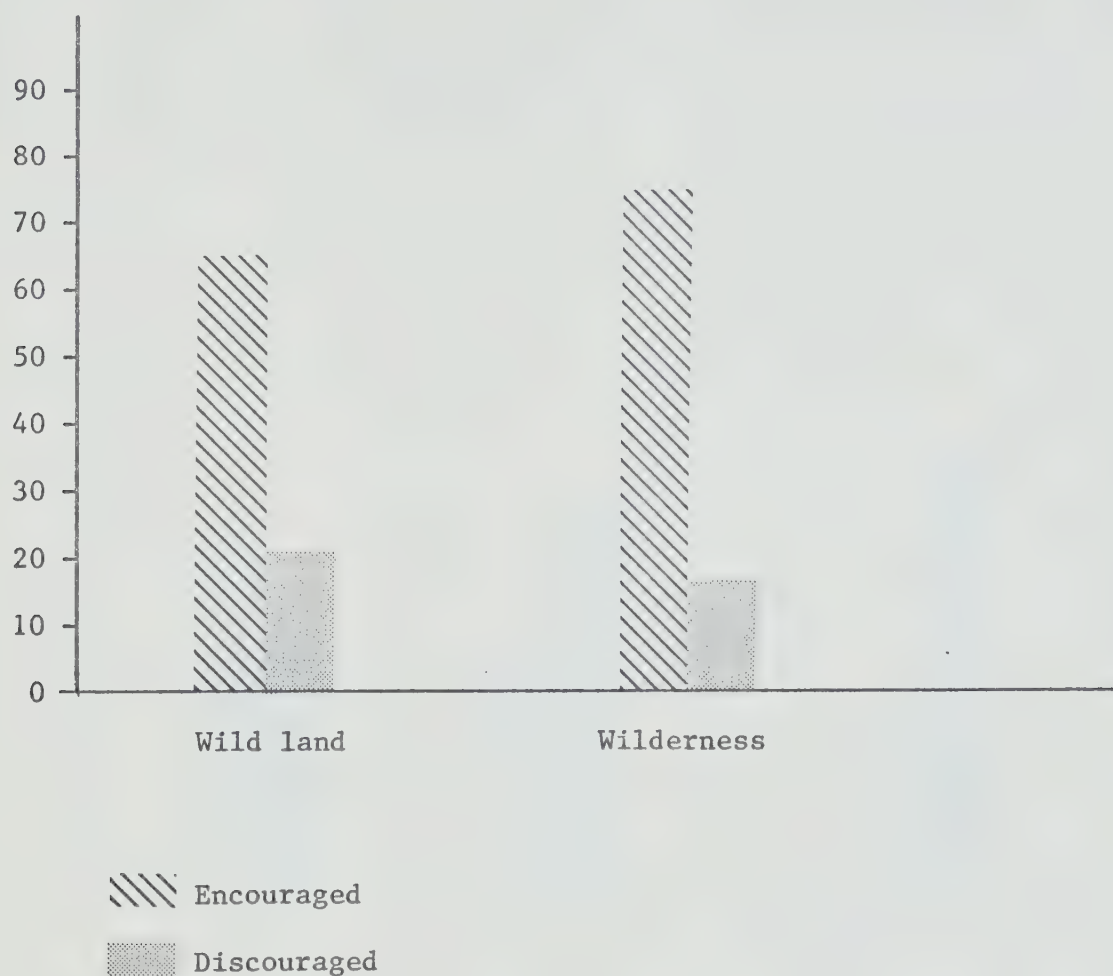
"DO YOU THINK THERE SHOULD BE MORE WILDERNESS
AREAS, ABOUT THE SAME AS NOW, OR LESS
WILDERNESS AREAS?"

	<u>Average</u>
More	40%
The same	49%
Less	8%
Don't know	3%

(Question 21, page 4)

As the responses indicate, the majority of
respondents are in favor of wild land and wilderness areas.

WILD LAND AND WILDERNESS PREFERENCE

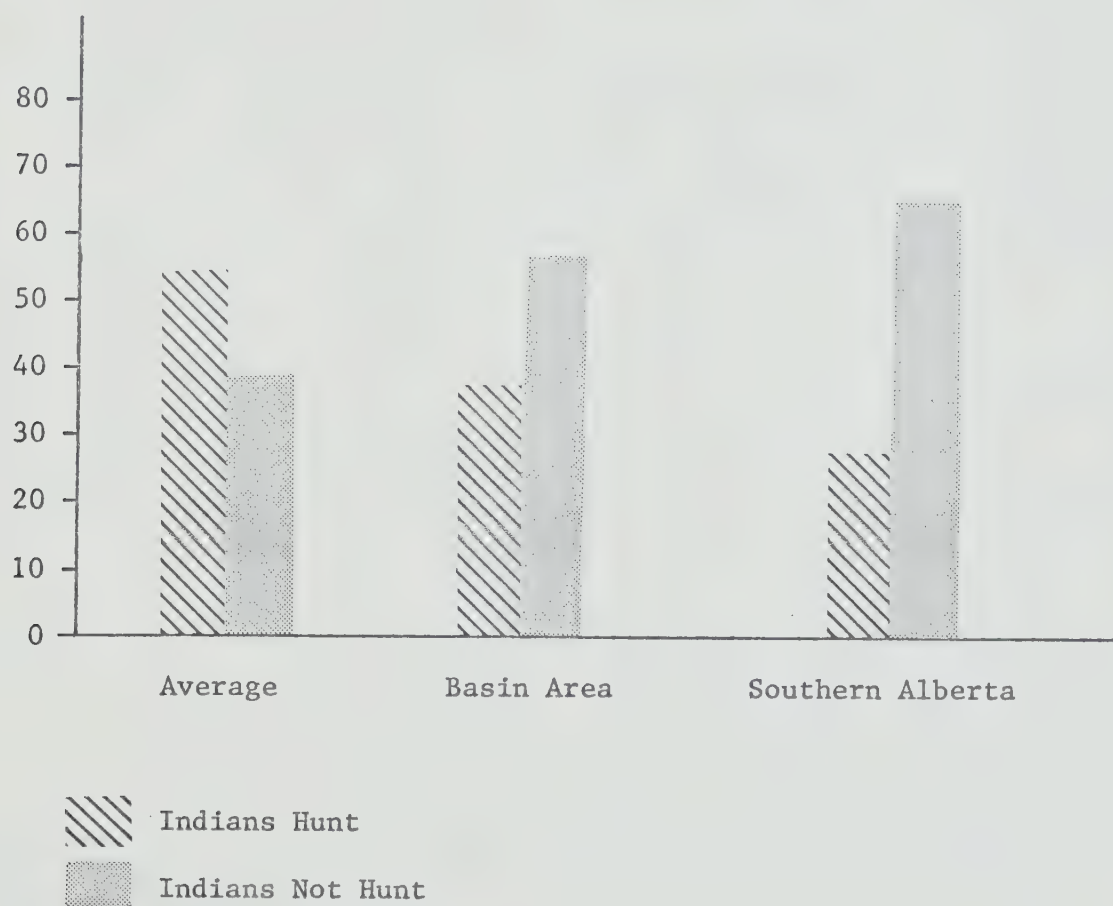


(Questions 19, 20 and 21, page 4)

Fifty-five percent of the respondents felt that Indians should be allowed to hunt and fish at all seasons on government owned land (Question 22, page 5). Forty percent of the respondents were opposed to this idea. Exceptions to this rule are

the basin area residents, and respondents from southern Alberta (Table 23, page 32). Basin area respondents are opposed to the Indian hunting rule, as are the southern Alberta respondents.

INDIAN RIGHTS



Fifty-nine percent of the respondents felt that natural grazing areas should be left to wildlife only, while 24 percent of the respondents felt that ranchers should be allowed to use them for grazing cattle (Question 23, page 5). Southern Albertans expressed an opinion different from the average, where 34 percent felt the grazing areas should be restricted to wildlife only, and 39 percent were in favor of ranchers grazing cattle (Table 24, page 33). Fourteen percent of the southern respondents felt the area should be used for both wildlife and cattle and 12 percent did not know. No reason for this variance of opinion is advanced; however, southern Albertans have often expressed opinions and attitudes different from the average in other survey research studies.

There is also a large majority who support the idea of confining the use of snowmobiles and trailbikes (Questions 29

and 30, page 6). Ninety percent indicated that snowmobiles should be confined to specific areas, and 82 percent expressed the same attitude towards trailbikes.

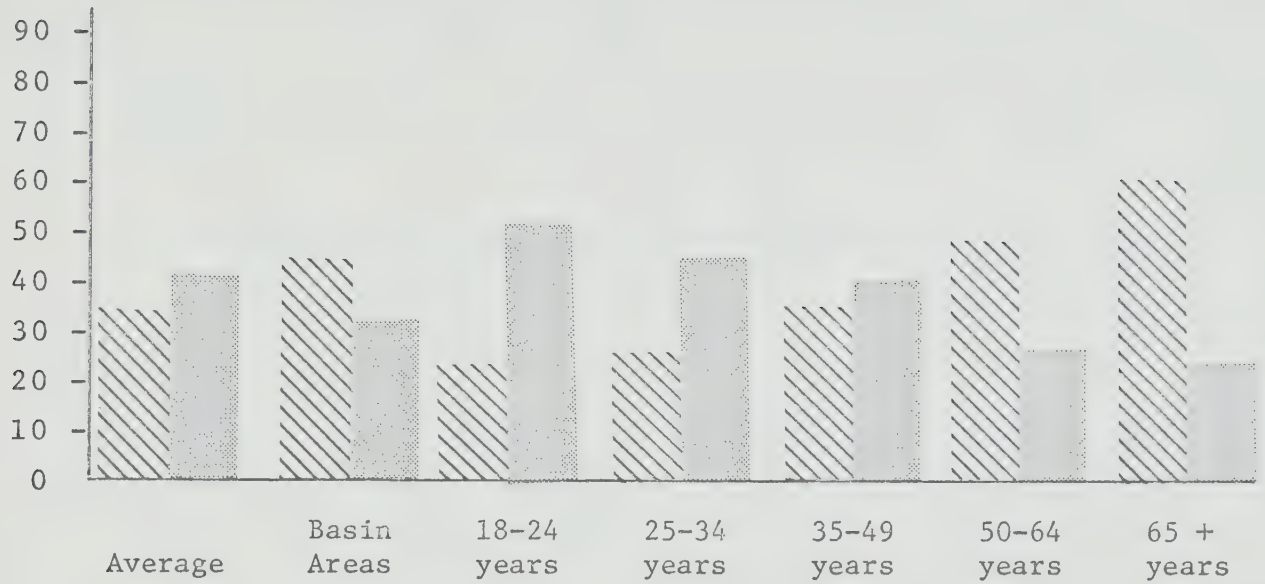
Urban respondents are more prone to advocate confinement than their rural counterparts (Tables 30 and 31, pages 39 and 40).

6.1 Dams

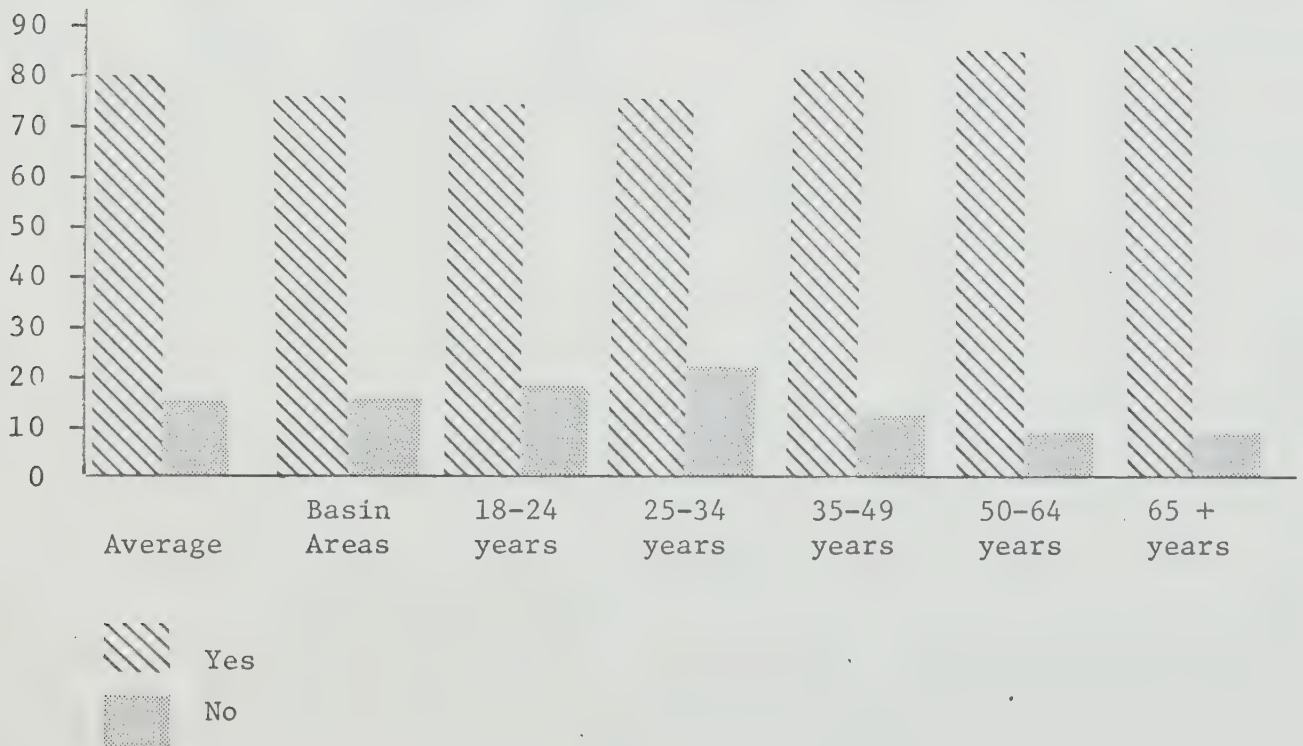
Sixty-one percent of the respondents felt that building dams on our rivers for hydro electric power is a good way to manager our water (Question 34, page 7). When asked if we need to build more dams for electric power, the respondents were almost evenly split; thirty-five percent were in favor of more dams, 41 percent were opposed to more dams, and 24 percent indicated they did not know whether or not more dams were needed for electric power (Question 35, page 7). Basin area respondents are more in favor of the development of dams, while younger age groups are less in favor than the average regarding the development of dams, as the graph below illustrates (Table 12, page 21, Table 81, page 96).

The building of dams for water storage or irrigation is felt necessary by 80 percent of the population (Question 36, page 7).

MORE DAMS FOR HYDRO-POWER



MORE DAMS FOR STORAGE



6.2 Timber

Forty-seven percent of the population feel that the logging companies are taking out about the right amount of timber; 28 percent think there is too much timber being cut, and four percent feel there is not enough being cut (Question 37, page 8). When asked: "Do you think logging companies are planting new trees as fast as they are cutting them down?", 26 percent answered yes, and 47 percent answered no; 27 percent indicated they did not know (Question 38, page 8). The respondents from the smaller centres and rural areas of the province appeared to be more critical than their urban counterparts (Table 39, page 51).

6.3 Oil

Fifty percent of the population felt that exploration for oil and gas is causing or may cause too much damage to the environment of the Eastern Slopes (Question 39, page 8). Thirty-nine percent felt it is not causing too much damage, and 11 percent indicated they did not know. Respondents living in the northern part of the province, including Edmonton, were more critical of oil company environmental problems than the average (Table 40, page 52). And, as previous cross-tabulations demonstrate, the younger age groups indicate a greater concern for environmental difficulties than older groups (Table 85, page 100).

6.4 Mining

"DO YOU FEEL THAT SURFACE MINING IS CAUSING
OR MAY CAUSE SERIOUS DAMAGE TO THE ENVIRONMENT
OF THE EASTERN SLOPES?"

	<u>Average</u>	<u>Basin Areas</u>	<u>North Rural</u>	<u>18-24</u>	<u>65+</u>
Yes	66%	75%	75%	78%	59%
No	22%	25%	13%	17%	33%
Don't know	12%	—	12%	5%	8%

(Question 40, page 8, Table 41, page 53, Table 86, page 101)

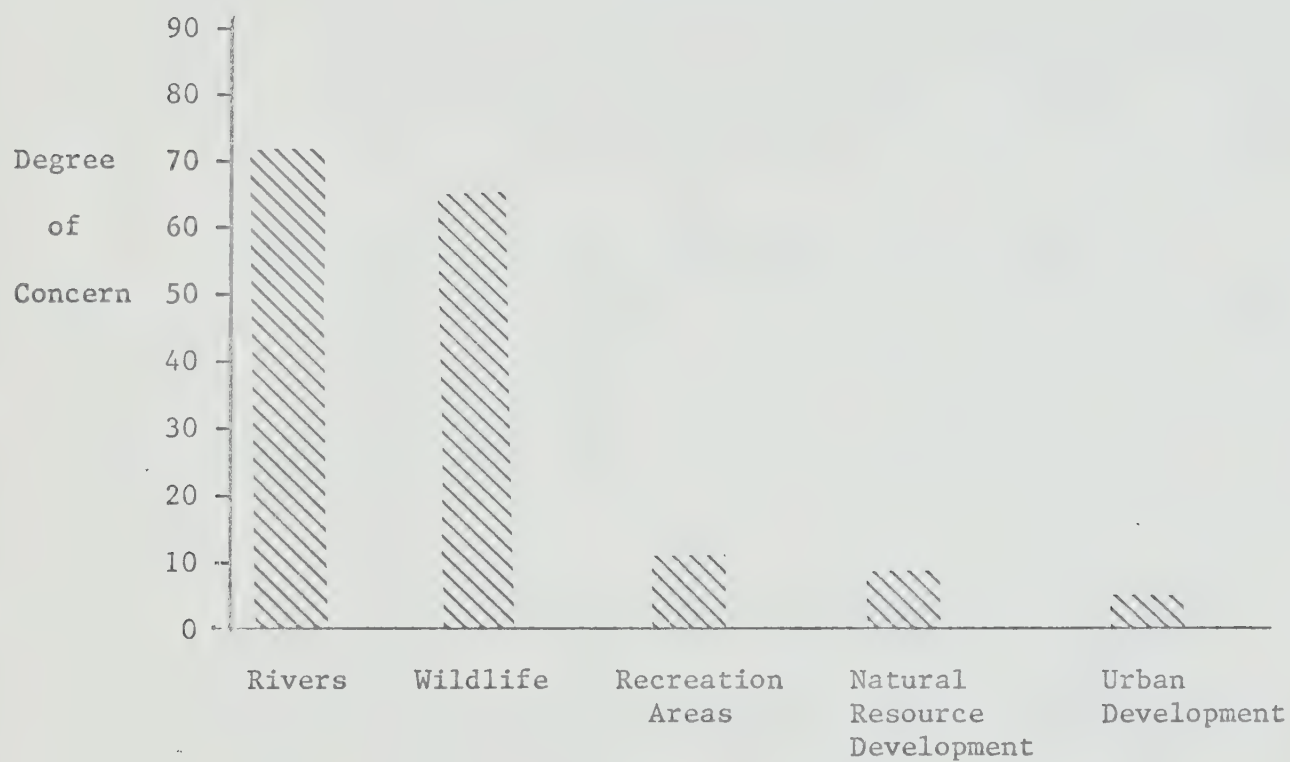
Fifty-five percent of the respondents felt that it is not possible to restore the land to its original state after it has been surfaced mined (Question 41, page 8). Again, the younger age groups indicated their greater concern with environmental problems (Table 87, page 102).

6.5 Land Restoration

Ninety-two percent of the respondents felt that the land should be restored to its original state after resource development (Question 42, page 9). Fifty-four percent of the respondents felt that resource industries in the mountain areas were not doing all they can to restore the environment (Question 43, page 9).

Three-questions were asked in sequence in order to give a preference ranking of what the respondents felt was the most important concern in the Eastern Slopes (Questions 31, 32 and 33, pages 6 and 7). The following graph gives an indication of the relationship between the rankings.

EASTERN SLOPES CONCERNS



(Note that these are not percentages,
but a weighting factor applied to
percentages)

Eighty percent of the respondent population felt that the government should place restrictions on the way land is used in the Eastern Slopes (Question 24, page 5). Southern Alberta respondents were less inclined towards expressing that opinion (Table 25, page 34), but there was an increasing advocacy of government restriction of land use the younger the respondent (Table 70, page 82). When asked if these restrictions should be rigidly enforced or should they be flexible, the following responses occurred: (Question 25, page 5, Table 26, page 35, Table 71, page 83)

"SHOULD THESE RESTRICTIONS BE RIGIDLY ENFORCED
OR SHOULD THEY BE FLEXIBLE?"

	<u>Average</u>	<u>Edmonton</u>	<u>Calgary</u>	<u>South Rural</u>	<u>North Rural</u>
Rigidly enforced	51%	65%	50%	35%	37%
Flexible	46%	35%	45%	65%	61%
Don't know	3%	-	5%	-	2%

	<u>18-24</u>	<u>25-34</u>	<u>35-49</u>	<u>50-64</u>	<u>65+</u>
Rigidly enforced	56%	52%	52%	49%	43%
Flexible	43%	47%	46%	50%	43%
Don't know	1%	1%	2%	1%	14%

	<u>Visited Once</u>	<u>Visited Twice</u>	<u>Three or More Visits</u>
Rigidly enforced	53%	46%	63%
Flexible	44%	54%	34%
Don't know	3%	-	3%

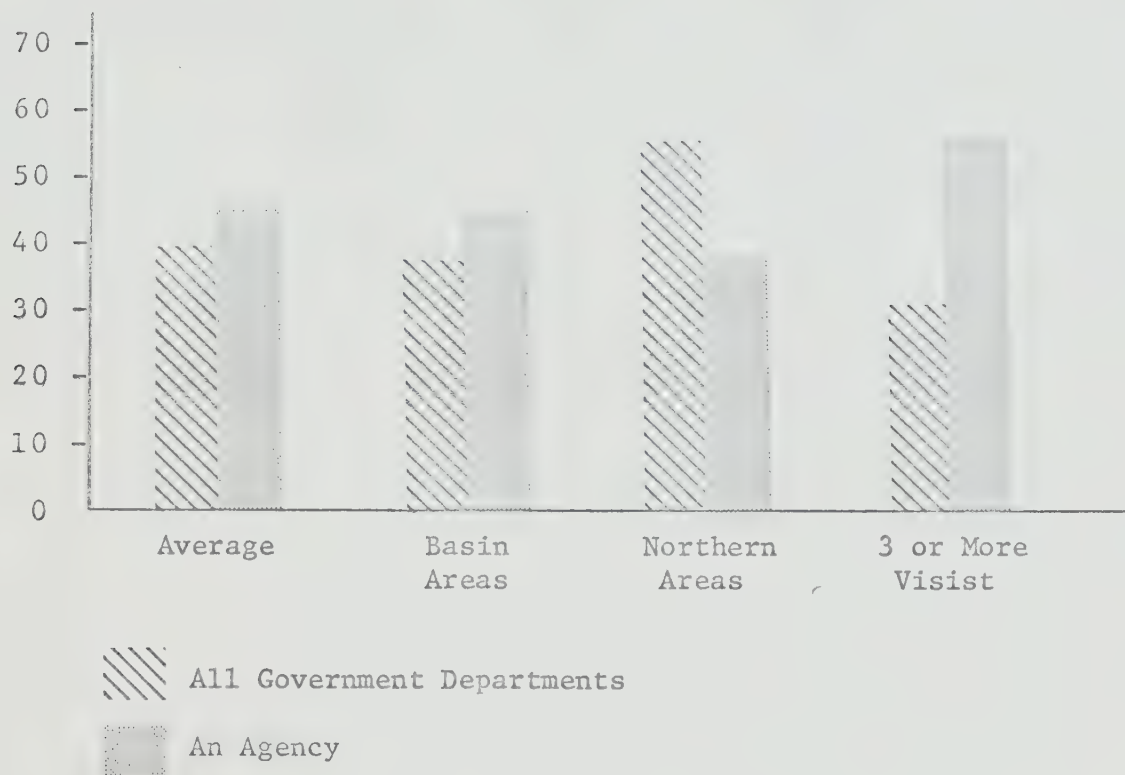
Fifty-eight percent felt the land should be used for selected purposes, 18 percent for all purposes, and ten percent for one purpose only, and 15 percent did not know (Question 26, page 5).

There is an almost even split with reference to public opinions as to who should be primarily responsible for administration of the Eastern Slopes (Question 27, page 6). Forty percent feel all government departments having an interest should be involved and 45 percent feel that it should be carried out by an agency which coordinates all departmental affairs for the Eastern Slopes. Fifteen percent did not express an opinion one way or the other.

Several population sub-groups are compared to the average in the following graph to show opinion differences.*

* Other groupings did show some variation from the average but are not included as the difference is slight.

EASTERN SLOPES ADMINISTRATION

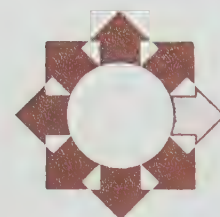


"WHICH LEVEL OF GOVERNMENT SHOULD CONTROL
THE USE OF LAND IN THE EASTERN SLOPES?"

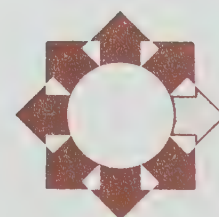
	<u>Percent</u>
Municipality or county	11
Regional Planning Commissions	7
Provincial Government	30
Mixture of all levels	47
Don't know	6

Sixty-nine percent of the sample population felt that developments should be restricted to towns already established as the population grows and new resource industries start up (Question 45, page 9). The younger age group was more adamant in advocating development than older groups (Table 91, page 106).

AGGREGATE DATA



AGGREGATE DATA



ENVIRONMENT CONSERVATION STUDY - OCTOBER, 73

PAGE 1

TABLE 1

		FREQ	PERCENT 1	PERCENT 2
QUESTION	1 IS BEEN TO EAST SLOPE			
ANS	1 IS YES	323	64.7	35.3
ANS	2 IS NO	170	34.1	34.3
ANS	3 IS CANT REMEMBER	2	.4	.4
	NON-RESPONSE	4	.8	
	TOTALS	499	100.0	100.0
	SD .4863	MEAN 1.35		
QUESTION	2 IS HOW OFTEN THIS YR			
ANS	1 IS ONCE	130	26.1	45.5
ANS	2 IS TWICE	61	12.2	21.9
ANS	3 IS THREE OR MORE	86	17.2	30.3
ANS	4 IS CANT REMEMBER	2	.4	.7
	NON-RESPONSE	220	44.1	
	TOTALS	499	100.0	100.0
	SD .8861	MEAN 1.36		
QUESTION	3 IS WHEN WAS LAST TIME			
ANS	1 IS 1 - 2 YEARS AGO	56	11.2	32.4
ANS	2 IS 2 - 5 YEARS AGO	54	10.8	31.2
ANS	3 IS OVER 5 YEARS AGO	35	7.0	20.2
ANS	4 IS NEVER BEEN THERE	22	4.4	12.7
ANS	5 IS CANT REMEMBER	6	1.2	3.3
	NON-RESPONSE	326	65.3	
	TOTALS	499	99.9	100.0
	SD 1.1394	MEAN 2.24		
QUESTION	4 IS CAMP			
ANS	1 IS YES	192	38.5	44.9
ANS	2 IS NO	277	55.5	39.1
	NON-RESPONSE	30	6.0	
	TOTALS	499	100.0	100.0
	SD .4922	MEAN 1.59		
QUESTION	5 IS SKI			
ANS	1 IS YES	62	12.4	13.5
ANS	2 IS NO	405	81.2	85.7
	NON-RESPONSE	32	6.4	
	TOTALS	499	100.0	100.0
	SD .3397	MEAN 1.87		

ENVIRONMENT CONSERVATION STUDY - OCTOBER 73

			FREQ	PERCENT 1	PERCENT 2
			----	-----	-----
QUESTION	6 IS HUNT AND FISH				
ANS	1 IS YES		35	19.8	19.8
ANS	2 IS NO		175	78.0	80.2
	NON-RESPONSE		30	0.0	
	TOTALS		499	100.0	100.0
	SD	.3991	MEAN	1.00	
QUESTION	7 IS HIRE				
ANS	1 IS YES		60	16.0	17.1
ANS	2 IS NO		338	77.8	82.9
	NON-RESPONSE		31	6.2	
	TOTALS		499	100.0	100.0
	SD	.3789	MEAN	1.00	
QUESTION	8 IS SIGHTSEE				
ANS	1 IS YES		182	65.5	75.8
ANS	2 IS NO		137	27.5	29.2
	NON-RESPONSE		30	6.0	
	TOTALS		499	100.0	100.0
	SD	.4552	MEAN	1.29	
QUESTION	9 IS OTHER ACTIVITY				
ANS	1 IS YES		62	10.4	11.2
ANS	2 IS NO		410	82.3	88.8
	NON-RESPONSE		34	6.8	
	TOTALS		499	100.0	100.0
	SD	.3155	MEAN	1.09	
QUESTION	10 IS ENOUGH ROADS				
ANS	1 IS TOO MANY		30	6.0	6.0
ANS	2 IS ABOUT RIGHT		279	55.9	56.1
ANS	3 IS NOT ENOUGH		114	22.8	22.9
ANS	4 IS DONT KNOW		74	14.8	14.9
	NON-RESPONSE		2	.4	
	TOTALS		499	99.9	99.9
	SD	.8178	MEAN	2.47	
QUESTION	11 IS PRESENT ROADS				
ANS	1 IS NEED RE IMPROV		100	21.8	21.8
ANS	2 IS SHOULD BE PAVED		122	24.4	24.5
ANS	3 IS SATISFACTORY		237	47.5	47.7
ANS	4 IS DONT KNOW		32	6.4	6.4

ENVIRONMENT CONSERVATION STUDY - OCTOBER 73

			FREQ	PERCENT 1	PERCENT 2
		NON-RESPONSE	1	.2	
		TOTALS	599	99.8	99.9
	SD	.8916	MEAN	2.59	
QUESTION	12	IS MORE ROADS WEST			
ANS	1	IS YES	265	44.2	44.2
ANS	2	IS NO	245	40.9	39.4
ANS	3	IS DONT KNOW	90	15.0	9.6
		NON-RESPONSE	1	.2	
		TOTALS	599	100.0	100.0
	SD	.8029	MEAN	2.00	
QUESTION	13	IS ROUNDS EAST-WEST			
ANS	1	IS MORE ROADS NEEDED	94	15.7	13.5
ANS	2	IS ENOUGH ROADS	322	53.8	64.7
ANS	3	IS TOO MANY ROADS	15	2.5	3.0
ANS	4	IS DONT KNOW	67	11.1	13.6
		NON-RESPONSE	1	.2	
		TOTALS	599	99.9	100.1
	SD	.8000	MEAN	2.11	
QUESTION	14	IS ROUNDS NORTH-SOUTH			
ANS	1	IS MORE ROADS NEEDED	144	24.0	28.9
ANS	2	IS ENOUGH ROADS	252	42.1	50.0
ANS	3	IS TOO MANY ROADS	12	2.0	2.4
ANS	4	IS DONT KNOW	90	15.0	19.1
		NON-RESPONSE	1	.2	
		TOTALS	599	100.0	100.0
	SD	1.0144	MEAN	2.10	
QUESTION	15	IS ADEQUATE ACCOMMODA			
ANS	1	IS YES	229	38.2	45.9
ANS	2	IS NO	251	41.9	50.0
ANS	3	IS DONT KNOW	119	19.8	23.0
		NON-RESPONSE	0	.0	
		TOTALS	599	100.0	100.0
	SD	.8000	MEAN	2.75	
QUESTION	16	IS RESTRICT HOTEL DEV			
ANS	1	IS PRESENT TOURIST	114	19.0	43.1
ANS	2	IS PROV OWNED LAND	99	16.5	19.9
ANS	3	IS DEV ELSEWHERE	131	21.9	26.4
ANS	4	IS DONT KNOW	95	15.9	19.7
		NON-RESPONSE	2	.3	

ENVIRONMENT CONSERVATION STUDY - OCTOBER 73

		<u>FREQ</u>	<u>PERCENT 1</u>	<u>PERCENT 2</u>
	TOTALS	499	100.0	100.1
	SD 1.0587	MEAN 2.05		
QUESTION 17	IS RESTRICT WHERE			
ANS	1 IS ZONED AREAS	114	22.8	58.5
ANS	2 IS ANYWHERE	62	12.4	31.8
ANS	3 IS DONT KNOW	19	3.8	9.7
	NON-RESPONSE	304	60.9	
	TOTALS	499	99.9	100.0
	SD .6686	MEAN 1.31		
QUESTION 18	IS HOTEL DEV LAND			
ANS	1 IS LEASE	125	25.1	64.4
ANS	2 IS SELL	43	8.6	22.2
ANS	3 IS DONT KNOW	26	5.2	13.4
	NON-RESPONSE	305	61.1	
	TOTALS	499	100.0	100.0
	SD .7215	MEAN 1.49		
QUESTION 19	IS WILD LAND AREAS			
ANS	1 IS ENCOURAGED	323	64.7	64.7
ANS	2 IS DISCOURAGED	108	21.6	21.6
ANS	3 IS NOT NEEDED	34	6.8	6.8
ANS	4 IS DONT KNOW	34	6.8	6.8
	NON-RESPONSE	0	.0	
	TOTALS	499	99.9	99.9
	SD .8907	MEAN 1.55		
QUESTION 20	IS WILDERNESS DEVELOP			
ANS	1 IS ENCOURAGED	388	77.8	77.9
ANS	2 IS DISCOURAGED	85	17.0	17.1
ANS	3 IS DONT KNOW	25	5.0	5.0
	NON-RESPONSE	1	.2	
	TOTALS	499	100.0	100.0
	SD .5464	MEAN 1.27		
QUESTION 21	IS MORE WILDERNESS			
ANS	1 IS MORE	197	39.5	39.5
ANS	2 IS SAME	245	49.1	49.1
ANS	3 IS LESS	41	8.2	8.2
ANS	4 IS DONT KNOW	16	3.2	3.2
	NON-RESPONSE	0	.0	
	TOTALS	499	100.0	100.0
	SD .7379	MEAN 1.75		

ENVIRONMENTAL CONSERVATION STUDY - OCTOBER 73

			FREQ	PERCENT 1	PERCENT 2
			----	-----	-----
QUESTION	12	IS INDIAN HUNTING			
ANS	1	IS INDIANS NOT HUNT	197	34.3	33.5
ANS	2	IS INDIANS HUNT	173	30.4	55.1
ANS	3	IS DONT KNOW	27	4.7	5.4
		NON-RESPONSE	3	.5	
		TOTALS	399	100.0	100.0
		SD	.5775		MEAN 1.00
QUESTION	13	IS NATURAL GRAZING			
ANS	1	IS WILDLIFE ONLY	190	32.7	32.7
ANS	2	IS GRAZING CATTLE	113	18.4	23.0
ANS	3	IS BOTH	30	4.9	13.0
ANS	4	IS DONT KNOW	24	3.9	1.4
		NON-RESPONSE	0	.0	
		TOTALS	357	99.0	70.0
		SD	.8714		MEAN 1.00
QUESTION	24	IS RESTRICT LAND USE			
ANS	1	IS YES	199	32.8	44.1
ANS	2	IS NO	40	6.4	9.0
ANS	3	IS DONT KNOW	34	5.5	10.0
		NON-RESPONSE	1	.2	
		TOTALS	374	100.0	63.0
		SD	.6502		MEAN 1.31
QUESTION	25	IS RESTRICTIONS ENFOR			
ANS	1	IS REGIDLY ENFORCED	180	29.1	31.4
ANS	2	IS FLEXIBLE	179	28.9	45.0
ANS	3	IS DONT KNOW	10	1.6	2.0
		NON-RESPONSE	10	1.6	
		TOTALS	379	100.0	100.0
		SD	.3493		MEAN 1.31
QUESTION	26	IS LAND USE			
ANS	1	IS ALL PURPOSES	86	17.2	17.0
ANS	2	IS SELECTED PURPOSES	284	56.9	56.0
ANS	3	IS ONE ONLY	47	9.4	9.0
ANS	4	IS DONT KNOW	73	14.6	14.0
		NON-RESPONSE	9	1.8	
		TOTALS	499	99.9	100.0
		SD	.9063		MEAN 1.22

ENVIRONMENT CONSERVATION STUDY - OCTOBER 1973

			ANS	PERCENT 1	PERCENT 2
			-----	-----	-----
QUESTION	17	13 EAST SLOPES ALMAN			
ANS	1	13 ALL GOV DEPARTMENT	201	75.0	77.7
ANS	2	13 ONE AGENCY	220	77.7	44.8
ANS	3	13 DONT KNOW	74	24.8	14.9
		NON-RESPONSE	1	.2	
		TOTALS	499	100.0	100.1
		SD	.6987		
		MEAN	1.74		
QUESTION	18	13 LEVEL GOV CONTROL			
ANS	1	13 COUNTY	38	11.0	11.0
ANS	2	13 REGION PLAN COMM	33	8.0	6.8
ANS	3	13 PROV GOVERNMENT	140	28.7	29.7
ANS	4	13 ALL LEVELS	130	26.7	45.8
ANS	5	13 DONT KNOW	29	5.8	5.0
		NON-RESPONSE	1	.2	
		TOTALS	499	100.0	99.9
		SD	1.0896		
		MEAN	3.36		
QUESTION	19	13 SNOWMOBILE AREA			
ANS	1	13 CONFINED	449	90.0	90.0
ANS	2	13 TRAVEL ALL AREAS	45	9.0	9.0
ANS	3	13 DONT KNOW	5	1.0	1.0
		NON-RESPONSE	0	.0	
		TOTALS	499	100.0	100.0
		SD	.3440		
		MEAN	1.11		
QUESTION	20	13 TRAIL BIKE AREA			
ANS	1	13 CONFINED	107	21.4	31.0
ANS	2	13 TRAVEL ALL AREAS	102	20.4	15.4
ANS	3	13 DONT KNOW	16	3.2	2.0
		NON-RESPONSE	0	.0	
		TOTALS	499	100.0	100.0
		SD	.4077		
		MEAN	1.20		
QUESTION	21	13 GOVERN 4 SLOPES			
ANS	1	13 PROTECT RIVERS	239	47.9	47.9
ANS	2	13 PROTECT WILDLIFE	170	34.7	34.7
ANS	3	13 DEV REC AREAS	20	4.0	5.0
ANS	4	13 DEV NAT RESOURCE	32	6.4	6.4
ANS	5	13 DEV URBAN	10	2.0	3.0
ANS	6	13 DONT KNOW	18	3.6	3.0
		NON-RESPONSE	0	.0	

ENVIRONMENT CONSERVATION, 31.01 - OCTOBER 71

			PERCENT 1	PERCENT 2
			-----	-----
		TOTALS	100.0	100.0
	SD	1.2377		
		MEAN	1.00	
QUESTION	11	IS CONCERN 1 SLOPES		
ANS	1	IS PROTECT RIVERS	17.7	17.7
ANS	2	IS PROTECT WILDLIFE	17.7	17.7
ANS	3	IS DEV REC AREAS	17.7	17.7
ANS	4	IS DEV NAT RESOURCE	17.7	17.7
ANS	5	IS DEV URBAN	17.7	17.7
ANS	6	IS DO IT KNOW	17.7	17.7
		NON-RESPONSE	0.0	0.0
		TOTALS	100.0	100.0
	SD	.9227		
		MEAN	1.00	
QUESTION	12	IS CONCERN 2 SLOPES		
ANS	1	IS PROTECT RIVERS	17.7	17.7
ANS	2	IS PROTECT WILDLIFE	17.7	17.7
ANS	3	IS DEV REC AREAS	17.7	17.7
ANS	4	IS DEV NAT RESOURCE	17.7	17.7
ANS	5	IS DEV URBAN	17.7	17.7
ANS	6	IS DO IT KNOW	17.7	17.7
		NON-RESPONSE	0.0	0.0
		TOTALS	100.0	100.0
	SD	.9206		
		MEAN	1.00	
QUESTION	13	IS DAYS GOOD DAY		
ANS	1	IS YES	17.7	17.7
ANS	2	IS NO	17.7	17.7
ANS	3	IS DO IT KNOW	17.7	17.7
		NON-RESPONSE	0.0	0.0
		TOTALS	100.0	100.0
	SD	.7671		
		MEAN	1.00	
QUESTION	14	IS MORE DAYS		
ANS	1	IS YES	17.7	17.7
ANS	2	IS NO	17.7	17.7
ANS	3	IS DO IT KNOW	17.7	17.7
		NON-RESPONSE	0.0	0.0
		TOTALS	100.0	100.0
	SD	.7627		
		MEAN	1.00	
QUESTION	15	IS DAMS FOR STORAGE		
ANS	1	IS YES	17.7	17.7
ANS	2	IS NO	17.7	17.7

ENVIRONMENTAL CONSERVATION STUDY - OCTOBER 1975

			PERCENT	PERCENT
			1	2
ANS	3 IS DONT KNOW	55	6.6	6.6
	NON-RESPONSE	0	.0	
	TOTALS	499	100.0	100.0
	SD .5759	MEAN 1.27		
QUESTION	37 IS PLANT GROWING			
ANS	1 IS TOO MUCH	139	27.9	27.9
ANS	2 IS ABOUT RIGHT	237	46.9	46.9
ANS	3 IS NOT ENOUGH	11	2.2	2.2
ANS	4 IS DONT KNOW	10	2.0	2.0
	NON-RESPONSE	0	.0	
	TOTALS	499	100.0	100.0
	SD 1.0655	MEAN 2.13		
QUESTION	38 IS PLANT FAST AS CUT			
ANS	1 IS YES	129	25.9	25.9
ANS	2 IS NO	334	66.9	66.9
ANS	3 IS DONT KNOW	136	27.3	27.3
	NON-RESPONSE	0	.0	
	TOTALS	499	100.1	100.1
	SD .7293	MEAN 2.01		
QUESTION	39 IS EXPLORATION DAMAGE			
ANS	1 IS YES	249	49.9	49.9
ANS	2 IS NO	193	38.7	38.7
ANS	3 IS DONT KNOW	57	11.4	11.4
	NON-RESPONSE	0	.0	
	TOTALS	499	100.0	100.0
	SD .6627	MEAN 1.62		
QUESTION	40 IS MINING DAMAGE			
ANS	1 IS YES	330	66.1	66.1
ANS	2 IS NO	110	22.0	22.1
ANS	3 IS DONT KNOW	59	11.9	11.0
	NON-RESPONSE	0	.0	
	TOTALS	499	99.9	100.0
	SD .6941	MEAN 1.43		
QUESTION	41 IS RESTORE AFTER MINE			
ANS	1 IS YES	180	36.1	36.1
ANS	2 IS NO	275	55.1	55.1
ANS	3 IS DONT KNOW	44	8.8	8.8
	NON-RESPONSE	0	.0	

ENVIRONMENT CONSERVATION: GOVT - CONSERVATION

				PERCENT 1	PERCENT 2		
		TOTALS	499	100.0	100.0		
	SD	.8127	MEAN	1.73			
QUESTION	1	2	3				
			SHOULD RESTORE				
ANS	1	2	3	YES	460	92.2	92.2
ANS	1	2	3	NO	30	6.0	6.0
ANS	1	2	3	DONT KNOW	9	1.8	1.8
			NON-RESPONSE				
		TOTALS	499	100.0	100.0		
	SD	.3821	MEAN	1.73			
QUESTION	1	2	3				
			GOV SHOULD PROTECT				
ANS	1	2	3	YES	104	20.8	20.9
ANS	1	2	3	NO	289	58.0	58.0
ANS	1	2	3	DONT KNOW	125	25.2	25.1
			NON-RESPONSE	1	.2	.1	
		TOTALS	499	100.0	100.0		
	SD	.6773	MEAN	2.04			
QUESTION	1	2	3				
			GOV PROTECT ENOUGH				
ANS	1	2	3	YES	100	20.0	21.4
ANS	1	2	3	NO	382	76.6	56.3
ANS	1	2	3	DONT KNOW	17	3.4	12.4
			NON-RESPONSE	0	.0	.0	
		TOTALS	499	100.0	100.0		
	SD	.6741	MEAN	1.85			
QUESTION	1	2	3				
			SHOULD DO WHAT				
ANS	1	2	3	DEV NEW TOURS	126	25.3	25.3
ANS	1	2	3	RESTRICT DEV	343	68.7	68.7
ANS	1	2	3	DONT KNOW	29	5.8	5.8
			NON-RESPONSE	1	.2	.1	
		TOTALS	499	100.0	100.0		
	SD	.5233	MEAN	1.81			
QUESTION	1	2	3				
			AGE				
ANS	1	2	3	18 TO 24	82	16.4	16.4
ANS	1	2	3	25 TO 34	127	25.4	25.4
ANS	1	2	3	35 TO 49	153	30.7	30.7
ANS	1	2	3	50 TO 64	87	17.4	17.4
ANS	1	2	3	65 OR OLDER	49	9.8	9.8
ANS	1	2	3	REFUSED	1	.2	.1
			NON-RESPONSE	0	.0	.0	

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		FREQ	PERCENT 1	PERCENT 2
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	TOTALS	499	100.0	100.0
SD	1.2072	MEAN	2.79	
QUESTION 47 IS SEX				
ANS	1 IS MALE	249	49.9	49.9
ANS	2 IS FEMALE	250	50.1	50.1
	NON-RESPONSE	0	.0	
	TOTALS	499	100.0	100.0
SD	.5005	MEAN	1.50	
QUESTION 48 IS AREA				
ANS	1 IS BASIN AREAS	32	6.4	6.4
ANS	2 IS EDMONTON	133	26.7	26.7
ANS	3 IS CALGARY	125	25.1	25.1
ANS	4 IS SOUTH	41	8.2	8.2
ANS	5 IS CENTRAL	101	20.2	20.2
ANS	6 IS NORTH	67	13.4	13.4
	NON-RESPONSE	0	.0	
	TOTALS	499	100.0	100.0
SD	1.5437	MEAN	3.49	

